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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/633,624	08/05/2003	Takashi Kurumisawa	116485	5362	
25944 7590 02/04/2009 OLIFF & BERRIDGE, PLC			EXAM	EXAMINER	
P.O. BOX 320850			BODDIE, WILLIAM		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER	
			2629		
			MAIL DATE	DELIVERY MODE	
			02/04/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/633.624 KURUMISAWA ET AL. Office Action Summary Examiner Art Unit WILLIAM L. BODDIE 2629 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 October 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 5.6 and 12-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 5,6 and 12-15 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date \_\_\_\_\_\_

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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#### DETAILED ACTION

 In an amendment dated October 2<sup>nd</sup>, 2008 the Applicants amended claims 5-6 and 14. Currently claims 5-6, 12-15 are pending.

#### Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 5-6 and 12-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification, while being providing support for a pixel group having red, green and blue sub pixels each with a grayscale value of 127 prior to viewing angle range adjustment, does not reasonably provide enablement for each pixel group having other grayscale values.

To further explain, the independent claims as currently constructed now require that *all* pixel groups in the image display device have a difference between red color sub pixels of adjacent pixels that is greater than a difference between blue color sub pixels of adjacent pixels.

As support for this limitation the Applicant's pointed to figure 3. While figure 3 demonstrates that the limitation is met when the original pixel values are [127 127 127] this is all that the specification supports. It is unknown what occurs when an original

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pixel has different grayscale values, for example [0 0 0], [256 256 256], or [0 0 256].

Paragraph 45 of the specification is not of any assistance either. It is merely

"supposed" that the grayscale value of one pixel before resolution conversion was 127 for each color. The reader is left wondering what occurs with different grayscale values.

The lack of support is even more glaring when viewed of limitations that are fully supported by the disclosure. The limitations requiring that different grayscale values for the same color sub pixels of adjacent ones are fully discussed throughout the specification (para. 44, for example) and are never qualified. In addition the mathematical relationship is directly addressed in the specification. The red and blue value difference relationship is never discussed directly within the specification and is only shown to occur for a specific set of original grayscale values.

4. In short the Applicants only support for the relationship between red and blue grayscale values is a single example in figure 3. It is never contemplated what the relationship will be for other values nor is it ever stated that the relationships between grayscale values in figure 3 must be maintained throughout the display. As such independent claims 5 and 14 are seen as non-enabled. Claims 6, 12-13 and 15 are rejected by virtue of their dependence on claim 5 or 14.

### Claim Objections

5. Claims 5 and 14 are objected to because of the following informalities: it appears Applicants intended the differences discussed in claims 5 and 14 to correspond to the grayscale values of the stated red and blue sub pixels. However, this intention is not clearly laid out in the current phrasing. The current phrase describes, "a difference

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between red color sub pixels." It is not entirely certain where the difference is arising from. Appropriate correction is required.

One possible correction would be to replace "a difference between red color sub pixels" with 'a difference between the grayscale values of the red color sub pixels.'

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM L. BODDIE whose telephone number is (571)272-0666. The examiner can normally be reached on Monday through Friday, 7:30 - 4:30 FST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sumati Lefkowitz/ Supervisory Patent Examiner, Art Unit 2629

2/4/2009 /William L Boddie/ Examiner, Art Unit 2629